

YHTC-100 (Ex) Series IP Thermal Camera Station

Fixed camera for both
Ex and safe areas



Overview

Made from 304 or 316L stainless steel and designed specifically for use in hazardous area and harsh environmental conditions. This hard-wearing and corrosion resistant fixed thermal camera station is suitable for a variety of applications both onshore and offshore in oil & gas, marine, wind, chemical and many other industries where quality and durability are a pre-requisite.

With ONVIF compliance as standard, with a resolution up to 640 x 512, and temperature measurement with alarms, the YHTC-100 has the operational capability for most demanding thermal video surveillance applications where the optical camera stations have gaps.

Features

- CNEEx certified.
- Patented Ex protection design with thermal camera window.
- 304 or 316L stainless steel enclosure.
- Resolution 640x512 or 384x288 option available.
- Temperature measurement range: -20°C to +150°C or 0°C to +550°C.
- Work temperature -40°C to +60°C.
- IP68.



Powering Business Worldwide

Eaton
Unit B, Sutton Parkway
Oddicroft Lane
Sutton in Ashfield
United Kingdom
NG17 5FB

T: +44 (0) 1623 444 400
MEDCSales@Eaton.com

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Certifications

Ex mark:	Ex d IIC T6 Gb/Ex tD A21 IP68 T80°C
Certificate No:	CNEx21.1943

Specifications

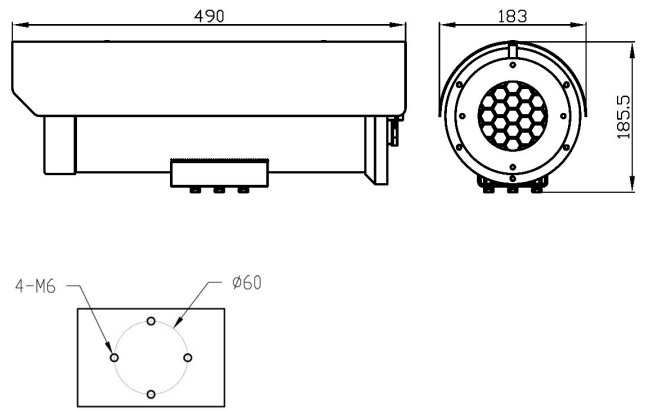
Material:	304 or 316L Stainless Steel enclosure
Finish:	Natural, polished or powder coated option available
Operating Temp:	-40°C to +60°C
Atmospheric pressure:	80~110KPa
Humidity:	≤95%RH -10°C)
Automatic heater:	Activates at -10°C (±5°C)
Ingress protection:	IP68(1.2m / 45min)
Cable entries:	3 x M25x1.5
Weight:	15Kg
Ship weight:	16.5Kg
Wall bracket load:	100Kg
Voltage:	110VAC to 240VAC (±10%)
Current:	≤0.5A
Mounting mode:	Wall mounting, base mounting
Camera window material:	Optical grade germanium
Camera window thickness:	10mm
Camera window resistance:	5~40Ω/cm
Camera window transmissivity:	≥98%(8~12μm)

Thermal spec and options

Thermal detector	Uncooled FPA detector
Resolution	640×512, 25HZ or 384×288, 50HZ
NETD	<50mK
Temp. measurement range	-20°C~150°C or 0°C~550°C
Temp. measurement accuracy	±2°C or ±2% whichever is higher
Temp. measurement mode	Any fixed point, Full screen max./min. temperature capture, Center spot, Line/Area analysis tool, isothermal analysis, temperature range selection
Ethernet protocol	Ethernet/IP, TCP, UDP, SNTP, RTSP, HTTP, ICMP, SMTP, DHCP, UPnP, PPPOE
VMS compliance	ONVIF, GB28181
Image polarity adjustment	Heat in black or white image
Image palette	Up to 18 palette options available
Video compression	H.264/265
Alarm function	Support configurable area, line or other individual alarms and external equipment to trigger alarms
Ethernet interface	Standard Ethernet RJ45 10M/100M/1000M self-adaptive
Alarm interface	1 alarm input and 1 alarm output.
Options available	

Resolution	Lens focus length	Field of view(H×V)	IFOV
384×288	4mm	90.3°×68.7°	4.250mrad
384×288	6.2mm	61.5°×45.7°	2.742mrad
384×288	9.7mm	37.9°×28.7°	1.753mrad
384×288	13mm	28.2°×21.3°	1.308mrad
384×288	19mm	19.5°×14.7°	0.895mrad
384×288	25mm	14.9°×11.2°	0.680mrad
384×288	35mm	10.6°×8°	0.486mrad
384×288	50mm	7.4°×5.6°	0.340mrad
640×512	4.1mm	89.8°×75.7°	2.92mrad
640×512	5.8mm	70°×57°	2.06mrad
640×512	9.1mm	48°×38°	1.31mrad
640×512	13mm	33.5°×26.9°	0.92mrad
640×512	19mm	22.9°×18.4°	0.63mrad
640×512	25mm	17.4°×14°	0.48mrad
640×512	35mm	12.5°×10°	0.34mrad
640×512	55mm	8°×6.4°	0.21mrad

General arrangement drawing (all dimensions in mm)



Ordering requirements

The following code is designed to help in selection of the correct unit. Build up the reference number by the code for each selection. Any special requirement please consult Eaton technical sales department.

